

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P451190

Luminaire Tested: **GALN-SA2A-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6604 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

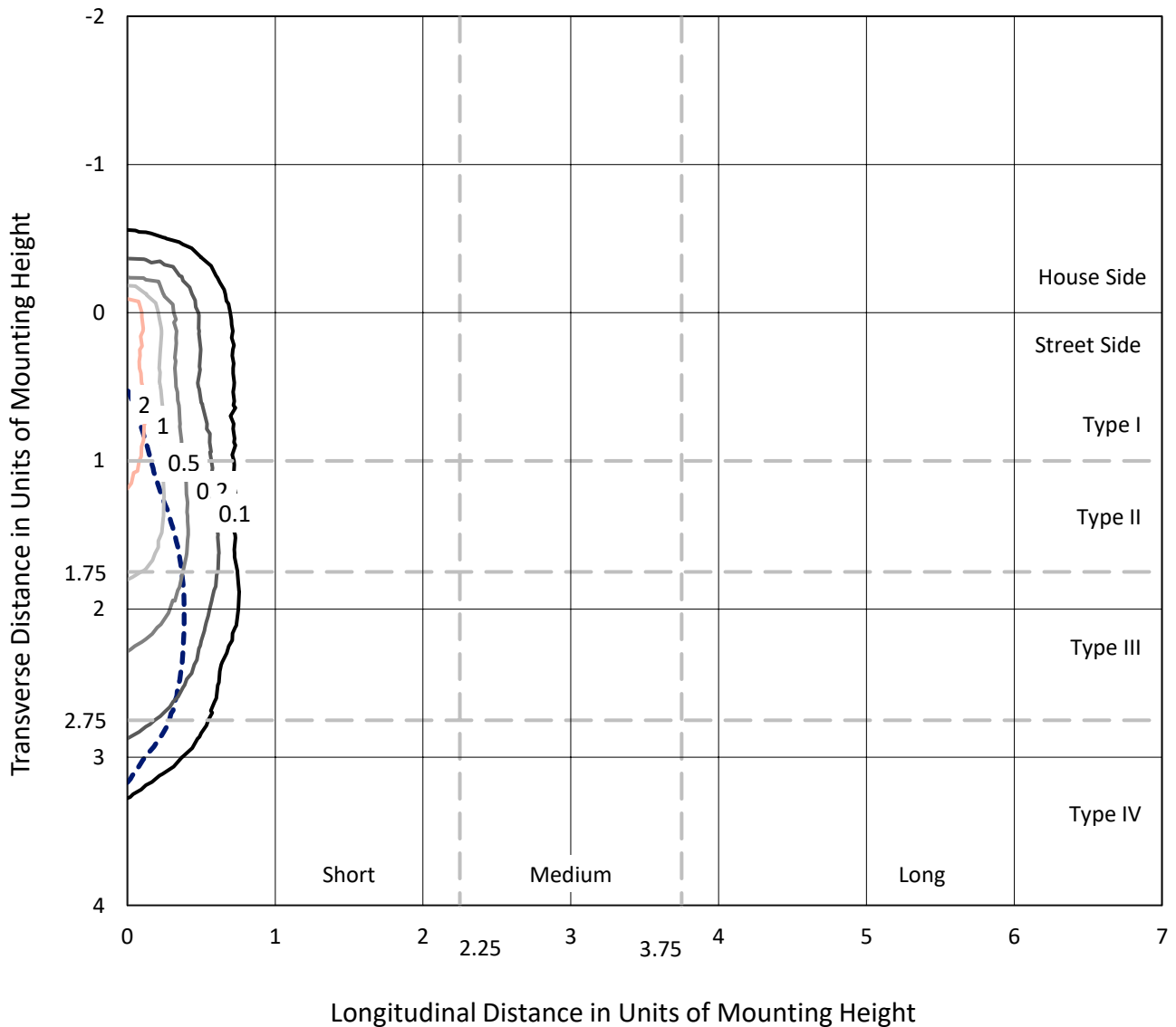
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

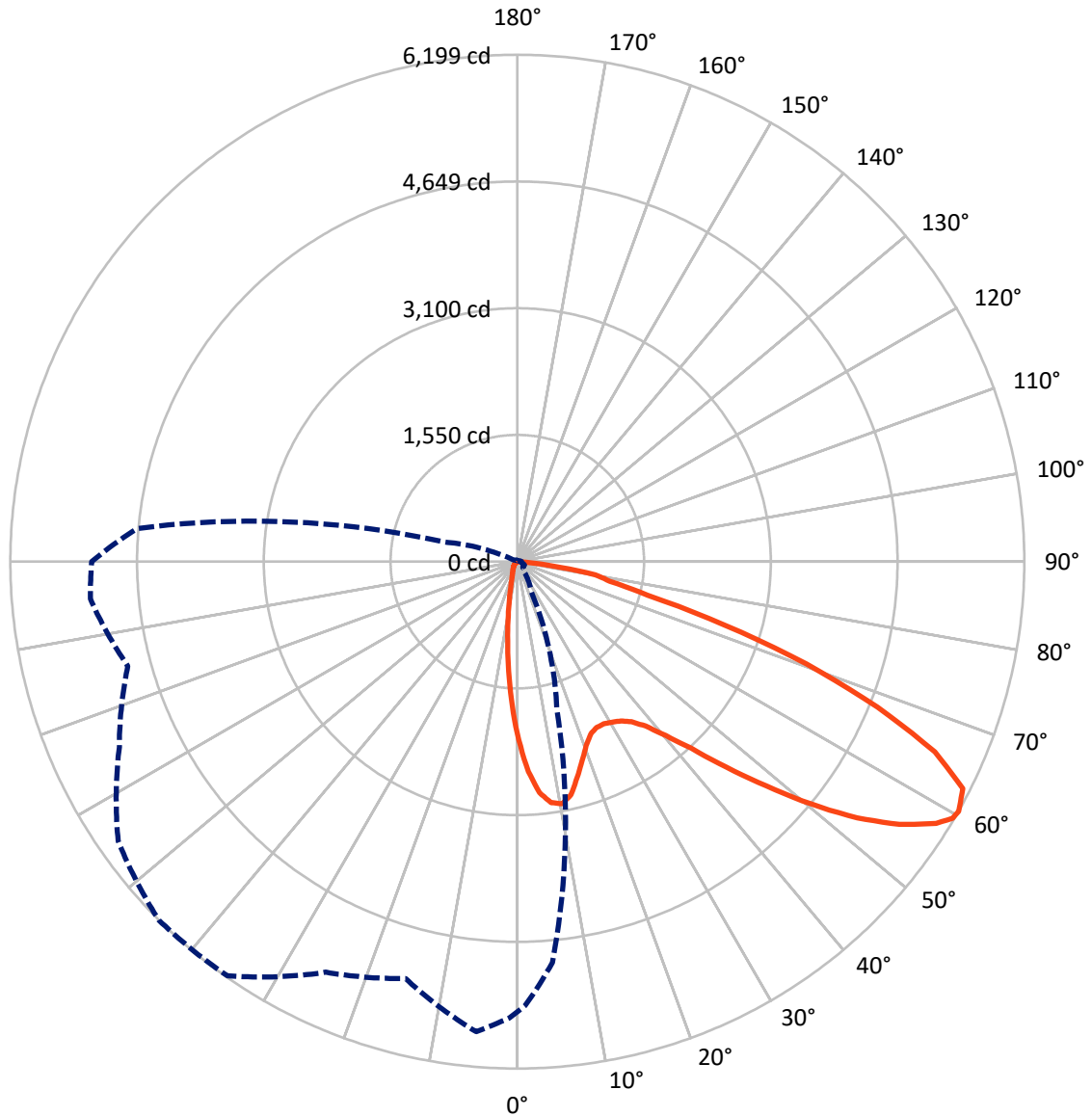
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.5	0.0	814.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	5789.5	0.0	5789.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	6604.0	0.0	6604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	2.5
10°-20°	322.4	4.9
20°-30°	472.8	7.2
30°-40°	703.1	10.6
40°-50°	1023.2	15.5
50°-60°	1475.5	22.3
60°-70°	1622.9	24.6
70°-80°	726.9	11.0
80°-90°	95.0	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6604.0	100.0
0°-180°	6604.0	100.0

Coefficient of Utilization



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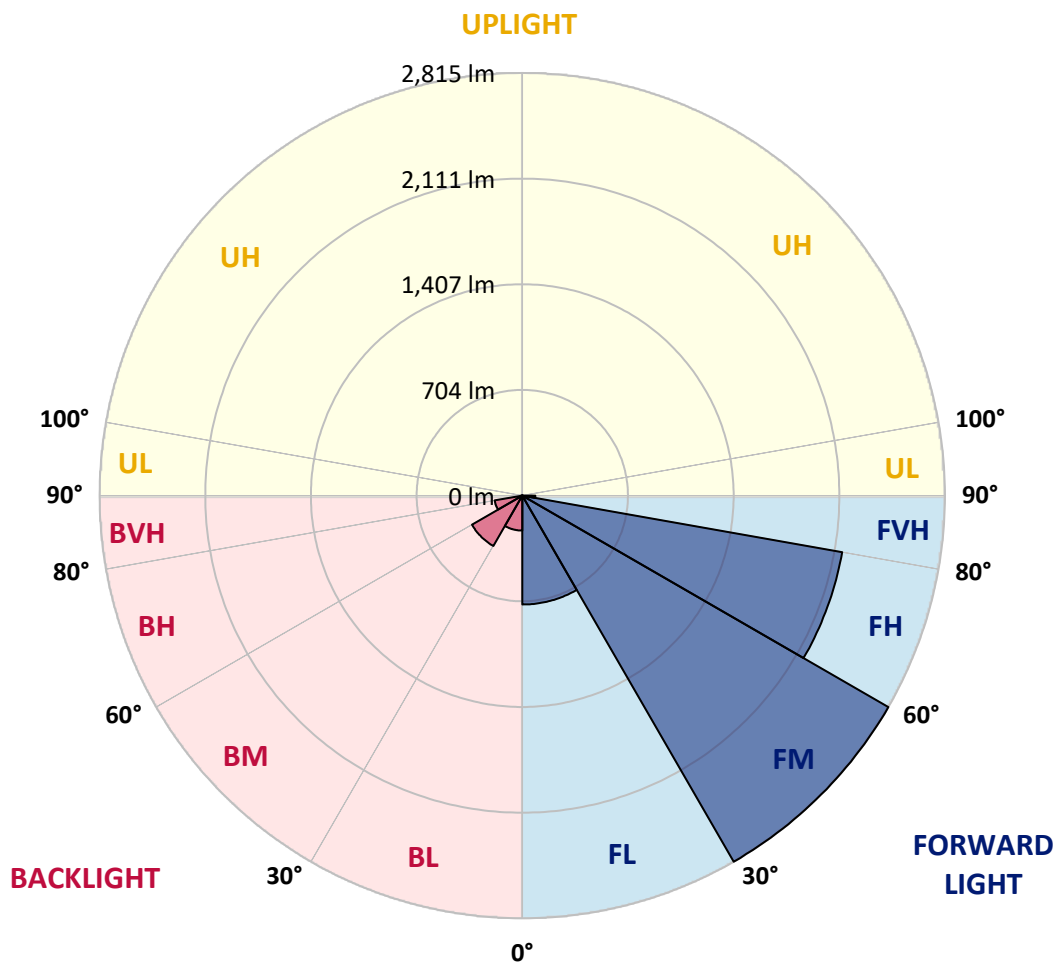
CATALOG NUMBER: GALN-SA2A-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	724.8	11.0			
FM (30°-60°)	2814.8	42.6			
FH (60°-80°)	2163.0	32.8			G2/5000
FVH (80°-90°)	86.9	1.3			G1/100
BL (0°-30°)	232.7	3.5	B1/500		
BM (30°-60°)	386.9	5.9	B1/1000		
BH (60°-80°)	186.8	2.8	B1/500		G1/500
BVH (80°-90°)	8.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7
2.5°	2399.6	2389.0	2364.9	2291.7	2227.9	2144.6	2060.2	1994.0	1953.3	1878.5	1844.4
5°	2324.8	2329.8	2260.0	2109.4	1941.8	1827.3	1702.3	1602.9	1493.5	1424.2	1351.4
7.5°	2129.5	2119.5	2043.7	1833.8	1630.0	1464.3	1306.2	1177.7	1096.9	1032.1	977.9
10°	1962.3	1954.8	1857.9	1587.8	1369.0	1245.0	1138.0	1025.6	938.7	843.9	768.1
12.5°	1857.4	1840.3	1728.9	1446.8	1268.6	1153.1	1036.6	919.7	799.7	703.8	611.9
15°	1822.3	1797.7	1673.7	1398.1	1204.3	1057.7	911.6	777.1	639.1	533.1	463.9
17.5°	1886.0	1845.4	1713.3	1389.5	1127.5	933.2	753.5	578.3	434.7	353.9	311.2
20°	2032.1	1985.4	1813.7	1381.0	1042.2	793.7	572.8	408.6	300.7	256.5	232.9
22.5°	2249.0	2184.7	1962.3	1394.6	963.3	657.6	413.7	288.7	239.0	211.3	194.8
25°	2509.5	2455.8	2150.6	1442.8	901.1	550.7	319.8	235.9	201.3	184.2	171.7
27.5°	2795.2	2709.3	2394.1	1500.5	844.4	467.9	280.6	210.8	179.2	163.7	157.1
30°	2998.5	2931.7	2597.9	1540.7	773.6	405.6	256.5	207.8	179.7	161.1	149.1
32.5°	3199.3	3113.9	2768.6	1559.2	721.9	362.4	221.9	181.2	157.6	148.1	136.0
35°	3414.1	3324.8	2938.7	1549.2	683.2	333.8	201.3	161.6	135.0	119.0	106.9
37.5°	3631.5	3537.1	3107.9	1513.0	659.1	322.3	185.2	153.6	127.5	110.9	97.9
40°	3889.5	3763.5	3266.5	1483.4	634.0	316.3	174.7	148.6	122.0	104.4	91.4
42.5°	4100.4	3980.4	3416.6	1467.9	617.0	302.2	174.7	144.6	118.5	98.9	85.3
45°	4300.2	4175.7	3578.8	1480.4	609.9	284.6	176.7	144.1	116.0	94.9	81.3
47.5°	4467.3	4359.4	3745.5	1527.6	600.9	265.6	166.2	151.1	114.5	91.4	77.3
50°	4664.6	4560.2	3965.8	1623.0	584.8	246.5	153.1	162.6	114.0	88.4	73.8
52.5°	4942.7	4829.8	4270.1	1731.4	559.2	217.4	141.1	161.1	111.9	83.3	70.3
55°	5282.6	5191.2	4622.5	1861.4	524.1	184.7	122.0	143.1	105.9	74.8	64.3
57.5°	5500.5	5422.7	4886.5	1917.7	470.4	151.1	107.4	120.0	96.9	66.8	57.2
59°	5526.1	5455.8	4941.7	1899.1	435.2	138.1	100.4	102.9	94.4	62.2	53.2
60°	5504.5	5431.7	4919.6	1862.9	402.6	129.0	94.4	91.4	94.9	59.7	50.2
62.5°	5365.9	5241.4	4705.3	1679.7	351.9	118.5	83.8	74.8	83.8	53.7	44.7
65°	5098.4	4911.6	4281.1	1421.7	331.8	112.4	71.3	62.8	63.8	47.2	38.7
67.5°	4631.0	4395.6	3716.3	1155.1	323.3	113.0	60.2	56.2	49.2	40.2	34.1
70°	3892.0	3657.1	2981.9	950.3	319.3	113.0	51.2	48.2	41.2	33.6	29.6
72.5°	2758.0	2505.0	2011.5	746.5	287.6	112.4	43.7	43.7	33.6	28.1	24.1
75°	1558.2	1560.2	1264.5	528.1	239.0	92.9	35.1	34.6	24.6	21.6	18.1
77.5°	908.1	892.1	852.4	226.9	110.9	42.2	24.6	21.1	17.1	15.6	13.1
80°	466.9	384.0	374.0	82.3	39.7	26.6	17.1	12.0	11.0	10.0	9.0
82.5°	138.1	138.6	123.5	33.1	22.1	17.6	8.5	6.5	6.0	5.5	5.5
85°	9.5	6.0	7.0	10.0	13.6	7.0	0.5	1.5	1.5	2.0	2.5
87.5°	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7
2.5°	1806.7	1828.8	1787.6	1788.6	1754.5	1765.6	1725.4	1738.4	1714.8	1732.9	1786.1
5°	1359.4	1364.4	1331.3	1320.8	1325.8	1346.4	1354.4	1317.8	1333.3	1302.7	1300.7
7.5°	957.8	963.8	944.8	942.3	978.4	969.9	985.4	947.8	912.1	927.7	899.1
10°	744.0	718.9	679.7	668.7	661.6	666.2	666.2	632.0	627.0	613.4	634.0
12.5°	587.3	556.7	519.6	469.4	456.8	455.8	437.2	407.1	397.6	386.0	403.1
15°	426.7	414.2	383.0	354.9	326.3	320.8	290.7	266.1	233.4	228.9	227.4
17.5°	300.2	281.6	281.1	265.1	248.5	237.4	209.3	181.2	168.7	167.2	167.2
20°	224.9	218.4	207.8	205.8	200.8	188.3	163.2	148.1	142.1	142.6	144.6
22.5°	189.3	184.7	175.2	170.7	168.7	157.6	139.1	129.0	126.0	126.0	126.5
25°	169.2	165.2	154.6	147.6	145.1	137.0	122.5	115.0	112.4	112.4	112.4
27.5°	154.1	149.1	138.1	132.0	127.5	118.5	109.4	101.9	99.4	99.4	99.9
30°	143.6	138.1	128.0	120.0	113.0	104.9	97.4	90.9	87.9	87.3	87.9
32.5°	129.5	124.5	114.5	109.4	101.4	91.9	85.8	79.8	76.8	77.3	76.8
35°	100.9	99.4	92.4	93.9	89.4	81.3	75.8	69.3	65.8	65.3	66.3
37.5°	91.9	85.8	77.8	78.3	76.8	73.8	64.8	57.7	55.2	55.2	55.7
40°	84.8	78.8	69.8	65.3	65.8	65.8	56.2	48.7	46.2	45.7	46.7
42.5°	78.8	72.8	62.8	55.2	53.2	55.7	47.7	40.2	37.7	36.6	37.7
45°	74.8	68.3	56.7	48.2	42.2	45.2	39.2	33.1	30.1	30.1	29.6
47.5°	70.8	64.8	52.2	41.7	35.1	33.6	32.1	26.6	23.6	23.1	23.6
50°	67.3	61.2	47.2	36.1	29.6	26.1	26.1	21.1	19.1	18.1	18.6
52.5°	63.8	57.2	42.7	32.1	25.6	21.1	18.6	17.1	15.6	15.1	15.6
55°	58.7	52.2	38.2	27.6	22.1	17.6	14.6	14.1	13.1	12.0	13.1
57.5°	52.7	46.7	33.6	23.6	17.6	13.6	12.0	11.5	10.5	10.0	10.0
59°	49.2	43.7	31.1	20.6	15.6	12.0	11.0	10.5	9.5	8.5	9.0
60°	47.2	42.7	29.6	19.1	14.1	11.0	10.0	9.5	8.5	8.0	8.5
62.5°	41.7	38.2	26.1	15.6	11.0	8.0	7.0	7.5	7.0	6.5	7.0
65°	36.6	33.6	22.1	12.0	8.5	5.5	5.0	6.5	6.0	5.5	6.0
67.5°	32.6	29.1	18.6	9.0	6.0	3.0	3.5	5.5	5.5	5.0	5.5
70°	28.1	25.1	15.1	6.5	3.0	1.5	2.5	4.0	5.0	4.5	5.0
72.5°	23.1	19.6	11.5	4.5	1.5	0.0	1.5	3.5	5.0	4.5	5.0
75°	18.1	14.6	8.5	2.5	0.0	0.0	0.5	3.0	5.0	4.5	5.0
77.5°	13.1	10.5	5.0	0.5	0.0	0.0	0.5	3.0	5.0	4.5	5.0
80°	8.5	7.5	2.0	0.0	0.0	0.0	0.5	3.0	5.0	5.0	5.5
82.5°	5.5	4.0	0.0	0.0	0.0	0.0	1.0	4.0	5.5	6.0	6.0
85°	2.5	0.0	0.0	0.0	0.0	0.0	2.0	5.0	6.5	6.5	6.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	3.5	6.0	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7
2.5°	1795.2	1826.8	1871.5	1940.2	1996.0	2083.8	2151.1	2243.0	2335.8	2363.9	2407.6
5°	1321.3	1361.9	1463.3	1555.7	1613.9	1799.7	1917.2	2102.4	2268.6	2348.4	2435.2
7.5°	917.7	965.9	1043.2	1172.2	1294.7	1445.8	1635.5	1847.4	2090.8	2204.8	2327.3
10°	644.1	704.3	813.2	919.2	1073.3	1216.9	1404.1	1638.0	1906.6	2041.2	2194.8
12.5°	406.6	460.3	604.4	723.4	915.7	1082.3	1255.0	1466.9	1778.1	1916.2	2077.3
15°	232.4	277.6	344.9	497.5	710.8	931.2	1146.6	1392.6	1712.3	1882.5	2056.7
17.5°	173.2	185.2	215.4	301.7	496.0	753.5	1046.7	1370.0	1757.0	1956.8	2155.6
20°	145.6	153.6	167.7	201.8	316.3	580.3	949.3	1374.0	1901.6	2152.6	2341.3
22.5°	130.5	135.5	147.1	169.2	215.9	422.7	835.3	1397.6	2076.8	2393.1	2610.9
25°	114.5	121.0	131.0	150.1	179.7	293.2	722.9	1450.3	2322.3	2698.3	2903.1
27.5°	101.9	107.9	118.0	135.5	157.6	223.9	591.9	1495.5	2581.3	3005.5	3173.2
30°	89.4	95.4	105.4	119.5	139.6	181.2	450.8	1522.1	2832.8	3235.9	3364.9
32.5°	78.8	83.8	93.4	105.9	122.5	153.6	355.4	1494.5	3025.1	3445.3	3531.6
35°	68.3	74.3	82.3	93.9	108.4	131.0	295.7	1399.1	3190.2	3660.6	3691.7
37.5°	57.2	64.3	72.8	83.3	94.9	120.5	237.4	1293.7	3366.9	3929.2	3878.0
40°	48.2	54.7	62.8	74.3	84.8	110.4	182.7	1181.2	3557.7	4181.2	4081.3
42.5°	39.2	46.2	55.7	66.3	83.8	96.4	141.6	1064.8	3728.9	4400.6	4265.0
45°	31.1	37.1	47.2	60.7	83.3	82.8	109.4	949.8	3857.9	4557.2	4402.1
47.5°	24.6	29.6	39.7	59.2	76.8	70.3	87.9	878.5	3993.4	4698.3	4507.0
50°	19.6	24.6	34.1	61.7	67.3	60.2	73.8	890.1	4124.5	4770.0	4550.2
52.5°	16.6	21.6	29.6	48.7	51.7	52.7	64.8	943.3	4293.6	4846.9	4636.0
55°	14.6	19.1	25.1	34.1	40.2	47.2	59.2	981.9	4520.1	5011.5	4825.3
57.5°	11.5	16.6	22.6	29.1	33.1	41.2	54.7	984.9	4724.9	5222.9	5076.8
59°	10.5	15.1	21.1	27.6	29.6	37.1	51.7	959.3	4732.4	5254.5	5192.2
60°	9.5	14.6	20.1	25.6	28.1	35.1	49.2	929.7	4664.1	5204.3	5239.9
62.5°	8.0	12.6	17.6	20.6	24.1	29.1	42.7	822.3	4333.3	4976.9	5151.6
65°	7.0	11.0	15.1	17.1	20.1	25.1	37.7	658.1	3967.8	4668.6	4898.6
67.5°	6.5	10.0	13.1	14.6	17.6	23.1	33.6	464.9	3494.5	4277.6	4518.5
70°	6.0	9.5	11.5	13.6	15.6	19.6	28.6	271.1	2691.7	3591.8	3846.4
72.5°	6.0	9.0	10.0	11.5	13.6	17.6	26.6	146.6	1840.3	2739.9	3068.8
75°	6.0	8.5	9.0	10.0	12.0	16.1	23.6	76.8	1189.8	1903.6	2349.4
77.5°	6.0	8.0	9.0	9.5	11.5	14.1	20.6	48.2	792.7	1333.3	1587.8
80°	6.5	8.0	8.5	9.5	11.0	13.1	17.1	32.1	465.9	802.2	966.4
82.5°	7.0	8.0	9.0	10.0	11.5	12.6	15.1	20.1	214.9	530.6	600.4
85°	7.5	8.5	9.5	10.5	12.0	12.6	14.1	14.6	35.1	239.5	323.8
87.5°	8.0	9.0	10.0	11.0	13.1	13.1	13.1	13.1	12.0	25.6	65.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7
2.5°	2462.8	2519.6	2559.2	2569.3	2540.6	2527.6	2491.4	2435.2	2401.1	2399.6
5°	2595.4	2728.4	2820.8	2836.3	2781.1	2687.7	2576.8	2433.7	2349.9	2324.8
7.5°	2572.8	2805.7	2954.3	2975.9	2883.0	2704.8	2489.9	2259.5	2168.2	2129.5
10°	2479.9	2764.0	2976.4	3010.5	2886.5	2635.5	2362.4	2105.4	1992.0	1962.3
12.5°	2400.6	2687.7	2876.5	2923.7	2829.8	2579.3	2286.1	2006.5	1885.0	1857.4
15°	2365.9	2597.4	2712.8	2736.9	2721.4	2544.2	2278.1	1991.5	1852.4	1822.3
17.5°	2400.6	2520.6	2535.1	2559.7	2594.4	2540.6	2355.4	2073.3	1923.2	1886.0
20°	2491.4	2453.8	2393.6	2404.1	2483.4	2555.2	2493.0	2254.5	2071.8	2032.1
22.5°	2646.1	2437.2	2300.7	2291.7	2392.1	2603.9	2694.8	2500.0	2288.1	2249.0
25°	2835.8	2478.9	2266.6	2247.0	2356.4	2675.2	2914.1	2800.7	2569.3	2509.5
27.5°	3042.7	2565.2	2266.6	2247.5	2353.4	2738.4	3101.9	3066.7	2860.4	2795.2
30°	3156.1	2636.5	2299.2	2277.6	2390.5	2775.1	3202.3	3303.2	3079.3	2998.5
32.5°	3257.5	2735.4	2362.9	2322.3	2468.4	2829.3	3292.1	3504.0	3253.5	3199.3
35°	3350.9	2841.3	2450.8	2403.6	2570.8	2903.6	3391.5	3714.8	3496.0	3414.1
37.5°	3453.8	2964.3	2587.8	2547.7	2741.9	3048.2	3509.5	3991.9	3734.4	3631.5
40°	3565.7	3106.9	2813.2	2796.2	3014.0	3211.8	3658.6	4287.6	4006.5	3889.5
42.5°	3679.7	3271.1	3089.3	3117.4	3322.3	3441.2	3811.7	4515.0	4229.4	4100.4
45°	3783.1	3480.9	3448.3	3587.3	3681.7	3665.1	3925.2	4675.2	4423.7	4300.2
47.5°	3913.6	3786.6	3882.5	4096.9	4099.4	3908.6	4011.0	4806.2	4590.8	4467.3
50°	4059.7	4147.6	4443.2	4661.6	4602.9	4148.1	4111.4	4961.3	4763.5	4664.6
52.5°	4228.9	4551.7	4961.3	5203.8	5066.7	4409.1	4278.6	5129.0	5037.6	4942.7
55°	4425.7	4827.3	5477.9	5671.1	5533.1	4733.4	4532.6	5356.4	5347.4	5282.6
57.5°	4648.1	5118.4	5777.1	6038.6	5915.6	5113.9	4887.5	5570.7	5536.6	5500.5
59°	4823.8	5268.0	5909.1	6180.2	6105.9	5380.5	5126.0	5704.3	5580.3	5526.1
60°	4930.2	5369.4	5957.8	6199.3	6182.2	5539.1	5277.1	5769.5	5579.8	5504.5
62.5°	5245.9	5546.6	5939.2	6114.4	6181.2	5843.3	5720.3	5841.3	5476.4	5365.9
65°	5358.4	5487.9	5631.5	5609.9	5667.1	5827.8	6003.5	5762.5	5255.5	5098.4
67.5°	5139.5	4843.8	4894.5	4750.5	4722.4	5181.2	5888.5	5377.0	4823.3	4631.0
70°	4332.3	3710.8	3685.2	3751.5	3569.8	4194.8	5287.6	4634.5	4109.9	3892.0
72.5°	3410.1	2622.5	2406.6	2650.6	2645.1	3200.3	4392.5	3288.6	2776.6	2758.0
75°	2681.7	1825.8	1602.4	1642.1	1718.4	2316.8	3498.5	2088.3	1709.8	1558.2
77.5°	1800.2	1293.7	1206.8	1158.1	1240.5	1487.4	2213.3	1132.5	958.8	908.1
80°	1037.6	939.8	1067.3	968.9	1013.0	937.2	1100.9	519.6	431.2	466.9
82.5°	675.2	535.1	570.3	423.7	579.3	584.3	353.4	153.6	130.0	138.1
85°	422.2	251.0	141.1	100.4	199.8	367.5	110.4	9.5	11.0	9.5
87.5°	109.4	41.7	17.6	26.1	32.1	28.6	25.6	1.5	0.5	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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